

PLANNING FOR REUSE DEVELOPMENT AND EXPANSION

Presented to the
Water Resources Task Force
October 2, 2009



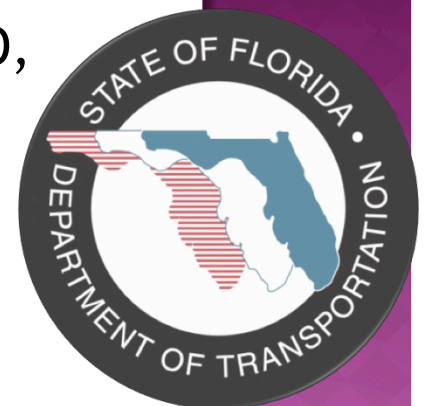
CHALLENGES IN COORDINATION AND PLANNING

- ◉ Installation of reuse infrastructure can require major roadway disruptions
- ◉ Effective coordination in the installation of reuse infrastructure can be hindered by lack of knowledge regarding regional plans
- ◉ Coordinating agencies are often not familiar with all of the issues
- ◉ Different agencies have different objectives



CRITICAL PARTNER AGENCIES

- ◉ Effective coordination in reuse planning must involve the regional agencies responsible for roadway planning - Broward MPO and FDOT
- ◉ FDOT roadway plans for Broward County are coordinated with, and endorsed by the MPO. Thus, the MPO might offer assistance in furthering local reuse objectives
- ◉ MPO staff was briefed on Broward's regional reuse planning and coordination needs and was invited to participate in discussions with FDOT
- ◉ Two meetings have been held involving FDOT, Broward County and municipal staff, representatives of the MPO, and staff from the SFWMD (May and September 2009)



OPPORTUNITIES FOR COORDINATION



- ◉ FDOT maintains a 5-year resurfacing and capacity plan that is updated annually
- ◉ 2 principle elements to discussions
 - Landscape irrigation
 - Infrastructure installation
- ◉ FDOT planning efforts have largely focused on the potential use of reclaimed water for landscape irrigation in FDOT right-of-ways
- ◉ Utilities are more interested in agency coordination to facilitate the installation of reuse infrastructure

LANDSCAPE IRRIGATION



- ◉ FDOT funding does not include installation of irrigation system
- ◉ 4% of total project budget is earmarked for landscape improvements
- ◉ Irrigation system installation requires municipal participation, but FDOT may be able to provide significant match (up to 60%)
- ◉ Municipality assumes all costs associated with transmission system and maintenance

INFRASTRUCTURE INSTALLATION

- Resurfacing projects are the most consistent element of FDOT 5-year plan
- Each project has a term of 3 years
 - Planning
 - Design
 - Improvement
- 5 year prohibition on surface disruption with project completion
- Coupling of projects requires early coordination (within first 18 months)



GENERAL NEEDS

- ◉ GIS coverage of FDOT 5-year plan showing project locations and schedules
- ◉ County-wide reuse masterplan for FDOT and local reference
- ◉ Single point person to serve as informational liaison



POLICY RECOMMENDATIONS



Agency Coordination

- ◉ Coordinate with the FDOT to obtain and receive annual updates of the FDOT 5-year resurfacing and capacity plan
- ◉ Coordinate the installation of municipal and utility reuse infrastructure to coincide with scheduled FDOT roadway improvements
- ◉ Collaborate with the MPO to pursue federal funds that might be used to help fund the installation of reuse infrastructure as part of roadway improvements
- ◉ Coordinate with the MPO to include support for reuse development and expansion in agency goals, objectives, and policies

POLICY RECOMMENDATIONS

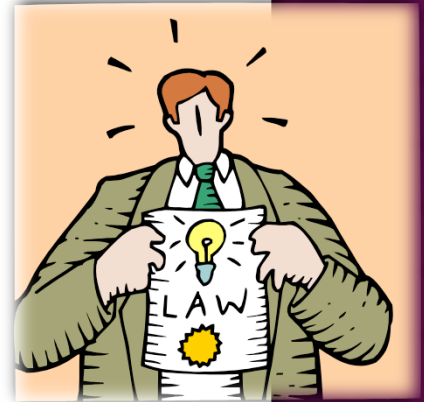
Planning



- ◉ Develop and update on an annual basis a comprehensive GIS coverage inclusive of municipal/utility reuse masterplans
- ◉ Coordinate and develop a County-wide Reuse Masterplan
- ◉ In coordination with local drainage and water control districts, evaluate the feasibility of utilizing canal right-of-way for reuse transmission
- ◉ Evaluate constraints of diverting wastewater flows away from regional facilities including water quality, 201/EPA implications, and potential impacts to collection/transmission systems

POLICY RECOMMENDATIONS

Regulation



- ◉ Require large and new water users to utilize reclaimed water when the use of reclaimed water is deemed technically, financially, and environmentally feasible.
- ◉ Encourage the SFWMD to implement rule changes that mandate the use of reclaimed water by large, industrial, and commercial water users when the use of reclaimed water is deemed technically, financially, and environmentally feasible.